

I Claim:

- 1 1. A  
2 method for forming a lenticular sheet comprising steps of:  
3 providing an inkjet printer having a digital signal  
4 interface for communicating with a programmable processor  
5 and having a movable print head selectively moved by a servo  
6 in response to externally generated commands received  
7 through the digital signal interface;  
8 measuring the smallest increment that the servo can  
9 move the movable print head;  
10 generating a least increment data representing the  
11 smallest increment measured by the measuring step; and  
12 extruding a lenticular sheet having a plurality of  
13 parallel microlenses with a spacing between adjacent ones of  
14 said plurality of microlenses based on the least increment  
15 data.
- 1 2. A method according to claim 1 wherein the lenticular  
2 sheet has a first and second surfaces parallel surfaces, and  
3 the microlenses are formed on the first surface, and further  
4 including the step of applying an ink receptive material to  
5 the second surface.

1 3. A method for displaying images through a lenticular  
2 sheet comprising steps of:  
3 providing an inkjet printer having a digital signal  
4 interface for communicating with a programmable processor  
5 and having a movable print head selectively moved by a servo  
6 in response to externally generated commands received  
7 through the digital signal interface;  
8 measuring the smallest increment that the servo can  
9 move the movable print head;  
10 generating a least increment data representing the  
11 smallest increment measured by the measuring step;  
12 extruding a lenticular sheet having a plurality of  
13 parallel microlenses with a spacing between adjacent ones of  
14 said plurality of microlenses based on the least increment  
15 data;  
16 forming an ink-receptive surface on said lenticular  
17 sheet;  
18 providing a printer having a smallest increment  
19 measurement within a predetermined range of said least  
20 increment data; and  
21 printing a plurality of pixel lines on said ink-  
22 receptive surface, the plurality of pixel lines having a  
23 spacing based on said least increment value.

1 4. A method for forming an extrusion tool comprising steps  
2 of:  
3 providing an inkjet printer having a digital signal  
4 interface for communicating with a programmable processor  
5 and having a movable print head selectively moved by a

6 servo in response to externally generated commands received  
7 through the digital signal interface;  
8 measuring the smallest increment that the servo can  
9 move the movable print head;  
10 generating a least increment data representing the  
11 smallest increment measured by the measuring step; and  
12 forming an extrusion cylinder having a plurality of  
13 grooves for extruding a lenticular sheet having microlenses  
14 corresponding to said plurality of grooves, said grooves  
15 having a spacing based on said least increment data.

1 5. A method for forming a lenticular sheet comprising  
2 steps of:  
3 providing a plurality of inkjet printers of different  
4 kinds, each having a digital signal interface for  
5 communicating with a programmable processor and having a  
6 movable print head selectively moved by a servo in response  
7 to externally generated commands received through the  
8 digital signal interface;  
9 measuring for each of the plurality of inkjet printers  
10 the smallest increment that the servo can move the movable  
11 print head;  
12 generating for a plurality of least increment data  
13 representing the plurality of smallest increments measured  
14 by the measuring step;  
15 identifying the inkjet printers within said plurality  
16 of inkjet printers having a least increment data within a  
17 predetermined range of one another;  
18 extruding a lenticular sheet having a plurality of  
19 parallel microlenses with a spacing between adjacent ones of

20 said plurality of microlenses based on at least one of the  
21 least increment data of the printers within said inkjet  
22 printers identified by said identifying step.

1 6. A method according to claim 1 wherein said extruding  
2 step is further based on a viewing parameter associated with  
3 a desired viewing distance.

1 7. A method according to claim 3 wherein said extruding  
2 step is further based on a viewing parameter associated with  
3 a desired viewing distance.

1 8. A method according to claim 7 wherein said spacing  
2 between said pixel lines is further based on said viewing  
3 parameter.

1 9. A method according to claim 5 wherein said extruding  
2 step is further based on a viewing parameter associated with  
3 a desired viewing distance.

1 10. A method according to claim 5 further including the  
2 step of applying an ink-receptive material to said  
3 lenticular sheet.

1 11. A method according to claim 10 further including steps of:  
2 providing a printer of a kind associated with at least one  
3 of the inkjet printers identified by said identifying step;  
4 and  
5 printing with the printer provided by said providing step a  
6 plurality of pixel lines on said ink-receptive surface, the  
7 plurality of pixel lines having a spacing based on said least  
8 increment value.